REMARKS

Claims 1, 2, 5-12, and 15-21 remain in the application and claims 1, 2, 8, 11, 12, 18, and 21 have been amended hereby. Claims 3, 4, 13, and 14 have been canceled, without prejudice or disclaimer.

Reconsideration is respectfully requested of the rejection of claims 2, 8, 12, and 18 under 35 USC 112, second paragraph, as being indefinite.

Claims 8 and 18 have been amended in part to give proper antecedent basis to the term "respective execution threads."

Further, claims 2 and 12 have been amended in part to clarify the relationship between "a plurality of objects" and "a function call" and to delete the "equivalent manner" recitation.

Accordingly, it is respectfully submitted that amended claims 2, 8, 12, and 18 are clear and definite in their recitation of the present invention and meet all requirements of 35 USC 112.

Reconsideration is respectfully requested of the rejection of claims 1, 2, 5-7, 11, 12, 15-17, and 21 under 35 USC 102(b), as being anticipated by McAffer, and of the rejection of claims 3, 4, 13, and 14 under 35 USC 103(a), as being unpatentable over McAffer in view of Swartz et al.

Because independent claims 1, 11, and 21 have been amended to recite the features of claims 3 and 13, and claims 3, 4, 13, and 14

have been canceled, the rejection of amended independent claims 1, 11, and 21 will be addressed as a rejection under 35 USC 103(a) over McAffer in view of Swartz et al.

Features of the present invention are a software environment for exchanging messages between a complex object (1 in Fig. 2) formed of a plurality of objects (2 and 3 in Fig. 2) having execution seriality and an independent object (6 in Fig. 2) external to the complex object. The software environment:

(a) temporarily stores (9 in Fig. 2) one or more messages from an object (2 or 3 in Fig. 2) forming the complex object (1 in Fig. 2) to the independent object (6 in Fig. 2),

(b) creates a history of message communications (8 in Fig. 2) of the objects (2 and 3 in Fig. 2) forming the complex object (1 in Fig. 2),

(c) determines that the complex object and the independent object have entered a predetermined relationship on the basis of the history of message communications (4 in Fig. 2), and

(d) sends the one or more messages to the independent object in a single operation when it is determined that the complex object and the independent object have entered the predetermined relationship.

An advantage of these features of the present invention is that the cost relating to message communications between the

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objects in the complex object, and between an object in the complex object and an external object is reduced. See the first full paragraph of page 25 of the present application, for example.

Independent claims 1, 11, and 21 have been amended to recite these features of the present invention.

The Office Action at paragraph 11 concedes that McAffer fails to show or suggest creating a history of message communications of objects forming a complex object and sending messages to an independent object in a single operation when it is determined, based on the history of message communications, that the complex object and the independent object have entered a predetermined relationship. Swartz et al. is cited as curing these deficiencies.

It is respectfully submitted that Swartz et al. fails to show or suggest creating a history of message communications of objects forming a complex object. Swartz et al. relates to a management interface between a core telecommunication system and a local service provider using a Local Service Activation Management (LSAM) system. The cited paragraphs of Swartz et al. (0123, 0125, and 0130) are merely describing components of the LSAM system shown in Figs. 2 and 3 of Swartz et al. which are unrelated to the recited communications between objects forming a complex object and to forming a history of those communications.

Further, for at least the same reasons, Swartz et al. fails to

show or suggest sending messages to an independent object when it
is determined, based on the above-discussed communications history,
that the complex object and the independent object have entered a
predetermined relationship.

Accordingly, it is respectfully submitted that amended
independent claims 1, 11, and 21, and the claims depending
therefrom, are patentably distinct over McAffer in view of Swartz
et al.

Reconsideration is respectfully requested of the rejection of
claims 9 and 19 under 35 USC 103(a), as being unpatentable over
McAffer in view of "Official Notice".

Claims 9 and 19 depend from claims 1 and 11, respectively,
which rejection over McAffer has been addressed above and, because
there are no features in the taken "Official Notice" that somehow
could be combined with McAffer and result in the presently claimed
invention, it is respectfully submitted that claims 9 and 19 are
patentably distinct over McAffer in view of "Official Notice".

Reconsideration is respectfully requested of the rejection of
claims 8, 10, 18, and 20 under 35 USC 103(a), as being unpatentable
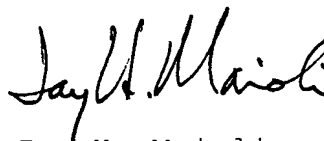over McAffer in view of Tajes-Martinez et al.

Claims 8 and 10, and 18 and 20 depend from claims 1 and 11,
respectively, which rejection over McAffer has been addressed above
and, because there are no features in Tajes-Martinez et al. that

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somehow could be combined with McAffer and result in the present claimed invention, it is respectfully submitted that claims 8, 10, 18, and 20 are patentably distinct over McAffer in view of Tajes-Martinez et al.

The prior art made of record and not relied upon has been reviewed and is not seen to show or suggest the present invention as recited in the amended claims.

Favorable reconsideration is earnestly solicited.

Respectfully submitted,
COOPER & DUNHAM LLP

Jay H. Maioli
Reg. No. 27, 213

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